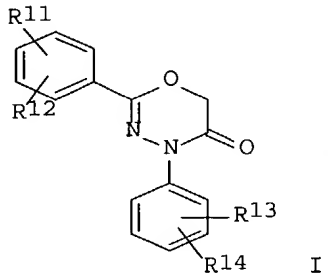
L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:573782 CAPLUS Full-text
DN 133:164066
TI Preparation of heterodiazinone derivatives as AMPA receptor antagonists
IN Ito, Koichi; Kitazawa, Noritaka; Nagato, Satoshi; Kajiwara, Akiharu; Fukushima, Tatsuto; Hatakeyama, Shinji; Hanada, Takahisa; Ueno, Masataka; Ueno, Kohshi; Kawano, Koki
PA Eisai Co., Ltd., Japan
SO PCT Int. Appl., 120 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000047567	A1	20000817	WO 2000-JP799	20000215
	W: AU, BR, CA, CN, HU, KR, MX, NO, NZ, RU, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 2000302770	A2	20001031	JP 2000-34407	20000214
	AU 2000024618	A5	20000829	AU 2000-24618	20000215
	AU 767849	B2	20031127		
	EP 1153922	A1	20011114	EP 2000-902953	20000215
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	JP 1999-36233	A	19990215		
	WO 2000-JP799	W	20000215		

OS MARPAT 133:164066
GI



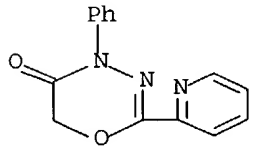
I

AB Heterodiazinone derivs. represented by general formula (I), pharmacol. acceptable salts of the same, or hydrates of both, [wherein A is O, S or NR3 (wherein R3 is hydrogen or lower alkyl); R1 and R2 are each independently optionally substituted (hetero)aryl, aralkyl, heteroarylalkyl, arylalkenyl, or heteroarylalkenyl, piperidyl, piperazinyl, morpholinyl, (un)substituted lower cycloalkyl, tetrahydrofuranyl, tetrahydropyranyl, adamantyl, (un)substituted NH2, (un)substituted amido; and R4 and R5 are each independently hydrogen, hydroxyl, halogeno, cyano, nitro, lower alkyl, or (hetero)aryl], exhibiting 2-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor antagonism, are prepared These compds. are useful for the treatment, prevention, or improvement of diseases where AMPA receptor antagonism is effective, such as neurodegenerative diseases, more specifically acute neurodegeneration suffered after brain ischemia, head injury, and spinal cord injury, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, Huntington chorea, epilepsy, pain, multiple sclerosis, cerebral meningitis, Guillain-Barre syndrome,

HIV- or HTLV-related myelitis, or white encephalitis. Thus, picolinic acid was condensed with phenylhydrazine using 1,1'-carbonyldiimidazole in DMF/THF to give 86% picolinic acid phenylhydrazide which was cyclocondensed with chloroacetyl chloride in Me Et ketone under reflux for 1 h to give 2-(2-pyridyl)-4-phenyl-4H-1,3,4-oxadiazine-5(6H)-one (II). II.HCl and 2-phenyl-4-(2-chlorophenyl)-4H-1,3,4-oxadiazin-5(6H)-one shoed IC50 of 11.8 and 0.8 μM, resp., for inhibiting AMPA-induced influx of calcium into rat cerebral nerve cells.

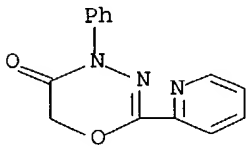
IT **287953-92-8P 287953-95-1P 287954-08-9P**
287954-10-3P 287954-22-7P 287954-23-8P
287954-25-0P 287954-54-5P 287955-32-2P
287955-33-3P 287955-34-4P 287955-35-5P
287955-36-6P 287955-37-7P 287955-61-7P
287955-82-2P 287955-85-5P 287955-86-6P
287955-87-7P 287955-88-8P 287955-89-9P
287955-90-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);BIOL (Biological study); PREP (Preparation); USES (Uses)(preparation of heterodiazinone derivs. as AMPA receptor antagonists and therapeutics)

RN 287953-92-8 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-(2-pyridinyl)-, monohydrochloride(9CI) (CA INDEX NAME)

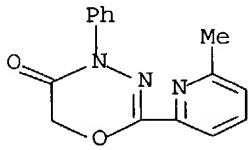


● HCl

RN 287953-95-1 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)



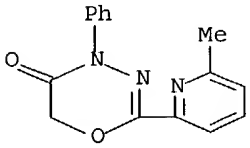
RN 287954-08-9 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-(6-methyl-2-pyridinyl)-4-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



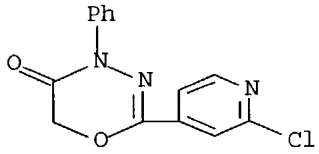
● HCl

RN 287954-10-3 CAPLUS

CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-(6-methyl-2-pyridinyl)-4-phenyl- (9CI) (CA INDEX NAME)

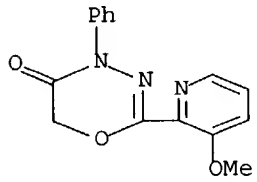


RN 287954-22-7 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-(2-chloro-4-pyridinyl)-4-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

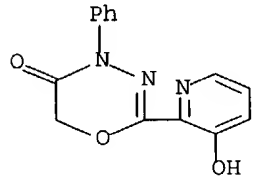


● HCl

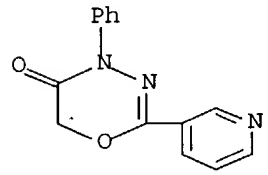
RN 287954-23-8 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-(3-methoxy-2-pyridinyl)-4-phenyl- (9CI) (CA INDEX NAME)



RN 287954-25-0 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-(3-hydroxy-2-pyridinyl)-4-phenyl- (9CI) (CA INDEX NAME)

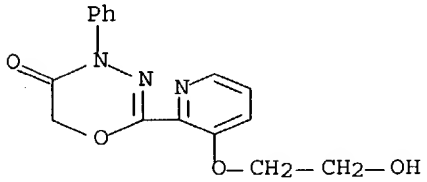


RN 287954-54-5 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-(3-pyridinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

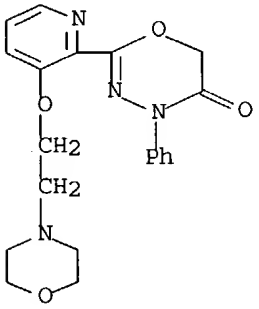


● HCl

RN 287955-32-2 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[3-(2-hydroxyethoxy)-2-pyridinyl]-4-phenyl-(9CI) (CA INDEX NAME)

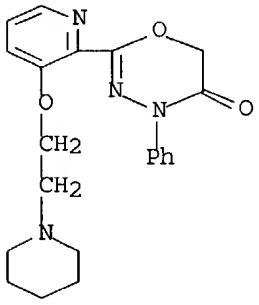


RN 287955-33-3 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[3-[2-(4-morpholinyl)ethoxy]-2-pyridinyl]-4-phenyl-, dihydrochloride (9CI) (CA INDEX NAME)



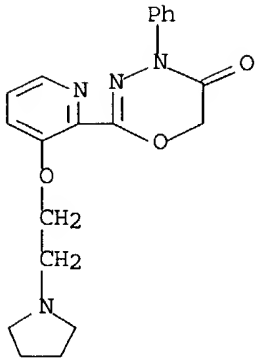
●2 HCl

RN 287955-34-4 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-[3-[2-(1-piperidinyl)ethoxy]-2-pyridinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



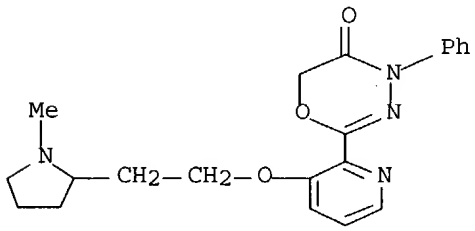
●2 HCl

RN 287955-35-5 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-[3-[2-(1-pyrrolidinyl)ethoxy]-2-pyridinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



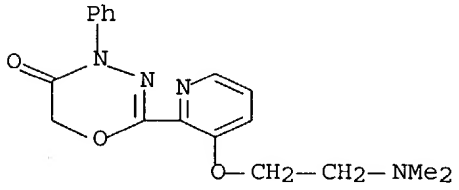
●2 HCl

RN 287955-36-6 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[3-[2-(1-methyl-2-pyrrolidinyl)ethoxy]-2-pyridinyl]-4-phenyl-, dihydrochloride (9CI) (CA INDEX NAME)



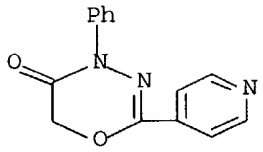
●2 HCl

RN 287955-37-7 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[3-[2-(dimethylamino)ethoxy]-2-pyridinyl]-4-phenyl-, dihydrochloride (9CI) (CA INDEX NAME)



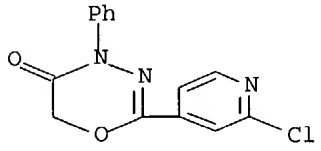
●2 HCl

RN 287955-61-7 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-(4-pyridinyl)-, monohydrochloride(9CI) (CA INDEX NAME)

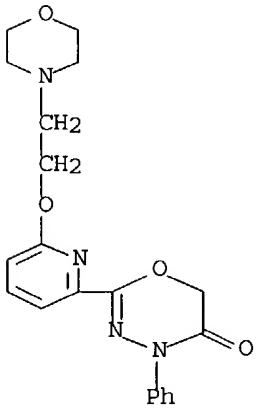


● HCl

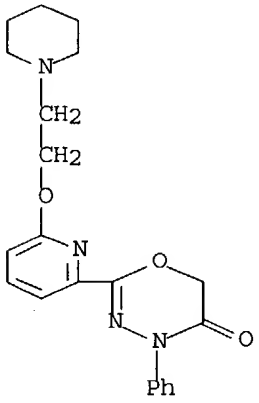
RN 287955-82-2 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-(2-chloro-4-pyridinyl)-4-phenyl- (9CI) (CA INDEX NAME)



RN 287955-85-5 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[6-[2-(4-morpholinyl)ethoxy]-2-pyridinyl]-4-phenyl- (9CI) (CA INDEX NAME)

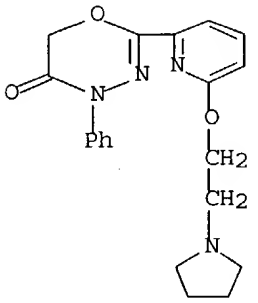


RN 287955-86-6 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-[6-[2-(1-piperidinyl)ethoxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)

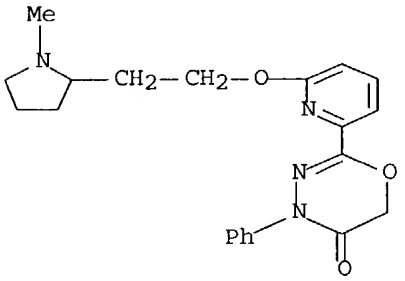


RN 287955-87-7 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-[6-[2-(1-pyrrolidinyl)ethoxy]-

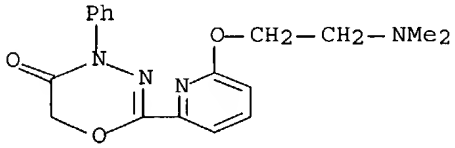
2-pyridinyl]- (9CI) (CA INDEX NAME)



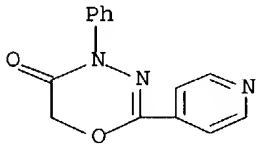
RN 287955-88-8 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[6-[2-(1-methyl-2-pyrrolidinyl)ethoxy]-2-pyridinyl]-4-phenyl- (9CI) (CA INDEX NAME)



RN 287955-89-9 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 2-[6-[2-(dimethylamino)ethoxy]-2-pyridinyl]-4-phenyl- (9CI) (CA INDEX NAME)



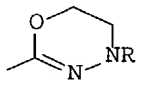
RN 287955-90-2 CAPLUS
CN 4H-1,3,4-Oxadiazin-5(6H)-one, 4-phenyl-2-(4-pyridinyl)- (9CI) (CA INDEX NAME)

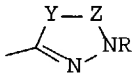


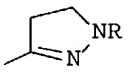
L9 ANSWER 1 OF 3 MARPAT COPYRIGHT 2004 ACS on STN
AN 130:219496 MARPAT Full-text
TI Nitrogen heterocyclic compounds and insecticidal and acaricidal compositions containing them
IN Kato, Yasuhito; Sugisaki, Hiroyasu; Kodama, Seiichiro; Wada, Hisao
PA Nippon Kayaku Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

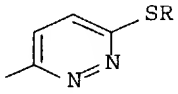
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11049755	A2	19990223	JP 1997-218367	19970730
PRAI JP 1997-218367	19970730			

GI

Q1 = 

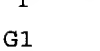
Q2 = 

Q3 = 

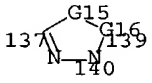
Q4 = 

AB N-containing heterocyclic compds. AQ [A = (substituted) aryl; Q = Q1-Q4; Y = OCH2, CH2CH2, CH:CH; Z = CH2, CO, CS; when Y = OCH2, then Z ≠ CH2; R = C1-4 haloalkyl, (CH2)mG; G = H, substituent; m = 0-3; when m = 0 or 1, then G ≠ H] or their salts are useful for insecticidal and acaricidal compns. Refluxing 4-(4-bromophenyl)-4-oxobutyric acid with hydrazine in EtOH and reaction of the resulting 3-(4-bromophenyl)-1H,4H,5H- 1,2-diazin-6-one with 1-bromo-2-fluoroethane in DMF in the presence of NaH gave 2-(2-fluoroethyl)-6-(4-bromophenyl)-4H,5H-1,2-diazin-3-one, which (at 200 ppm) showed ≥80% control of Aphis gossypii on cucumber leaf disks. Formulation examples are given.

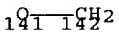
MSTR 1



G1 = pyridyl (SO (1-) G3)
G8 = 137-1 140-85



G9 = Ph (SO)
G15 = 141-137 142-139



G16 = C(O)
DER: or nitrogen containing heterocyclic derivatives and salts
MPL: claim 1
NTE: substitution is restricted

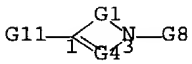
L9 ANSWER 2 OF 3 MARPAT COPYRIGHT 2004 ACS on STN
AN 129:132551 MARPAT Full-text
TI Pyridazinones as marine antifouling agents
IN Willingham, Gary Lewis; Sherba, Samuel Eugene; Lange, Barry Clifford; Michelotti, Enrique Luis
PA Rohm and Haas Co., USA
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 856255	A2	19980805	EP 1998-300059	19980106
EP 856255	A3	19981230		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
SG 72781	A1	20000523	SG 1998-125	19980117
CA 2227511	AA	19980730	CA 1998-2227511	19980120
JP 10212208	A2	19980811	JP 1998-32403	19980130

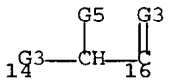
PRAI US 1997-36527P 19970130

AB Disclosed is a method of inhibiting the growth of marine organisms on a marine structure, by applying dihydropyridazinone and pyridazinone compds. (Markush given). These compds. may be directly incorporated into the marine structure during manufacture, directly applied to the structure, or applied to the structure by coating. Suitable agents are 6-(4-chlorophenyl)-2-(2-pentynyl)pyridazin-3-one, 6-(4-chlorophenyl)-2-(2'- pentynyl)-4,5-dihydropyridazin-3-one, etc.

MSTR 2



G1 = 14-1 16-3



G3 = O
G4 = N
G8 = Ph
G11 = pyridyl (SO (1) G15)
MPL: disclosure
NTE: substitution is restricted
NTE: additional ring formation also disclosed

L9 ANSWER 3 OF 3 MARPAT COPYRIGHT 2004 ACS on STN
AN 117:131213 MARPAT Full-text
TI Preparation of dihydropyridazinones and related compounds as fungicides
IN Egan, Anne Ritchie; Michelotti, Enrique Luis; Ross, Ronald, Jr.; Wilson, Willie Joe
PA Rohm and Haas Co., USA
SO Eur. Pat. Appl., 85 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 478195	A1	19920401	EP 1991-308404	19910913
	EP 478195	B1	19990526		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	AT 180475	E	19990615	AT 1991-308404	19910913
	ES 2131506	T3	19990801	ES 1991-308404	19910913
	CA 2051471	AA	19920322	CA 1991-2051471	19910916
	AU 9184602	A1	19920326	AU 1991-84602	19910919
	AU 651375	B2	19940721		
	ZA 9107466	A	19920527	ZA 1991-7466	19910919
	HU 59379	A2	19920528	HU 1991-3020	19910920
	BR 9104043	A	19920602	BR 1991-4043	19910920
	JP 05025164	A2	19930202	JP 1991-241806	19910920
	JP 3166782	B2	20010514		
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	CN 1069729	A	19930310	CN 1991-110000	19911028
	CN 1038249	B	19980506		
	JP 05286944	A2	19931102	JP 1992-62341	19920318
	JP 3242140	B2	20011225		
	US 5552409	A	19960903	US 1994-221229	19940331
	US 5631254	A	19970520	US 1995-467384	19950606
	US 5753642	A	19980519	US 1995-462472	19950606
	US 5726176	A	19980310	US 1996-740546	19961030
	US 5726162	A	19980310	US 1996-741248	19961030
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	US 5728694	A	19980317	US 1996-740549	19961030
	US 5728715	A	19980317	US 1996-741249	19961030
	JP 2001172264	A2	20010626	JP 2000-342863	20001110
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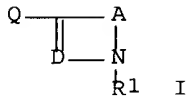
GI



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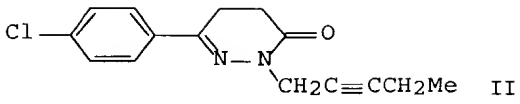
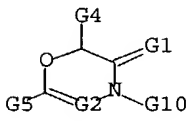


II

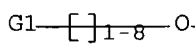
AB Title compds. I [A = (CHR2)nCHR7Z, (CHR2)nOZ, (CHR2)nSZ, OCHR7Z, etc.; n = 0-2; D = N, CR2; Q = (substituted) Ph, -naphthyl, -styryl, -pyridyl, -quinolyl, -indolyl, etc.; Z = CO, C:S; R1 = (substituted) alkyl, -alkynyl, -alkenyl, Ph, etc.; R2 = H, C1-3 alkyl, Ph, halo; R7 = R2, alkenylalkenyl, alkynyl, dialkynyl, halolkynyl, alkenylalkynyl; or R2 and R7 form fused Ph ring, etc., with provisos] were prepared as medical and agrochem. fungicides. Thus, 3-(4-chlorobenzoyl)propionic acid (preparation given) in absolute EtOH was refluxed for 3 h with hydrazine and the dihydropyridazinone formed was N-alkynylated by 1-bromopent-2-yne to give title compound II. II at 200 ppm gave 99% control of Pyricularia oryzae on rice and at 100 ppm gave 100% control of Candida albicans.

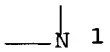
MSTR 1D



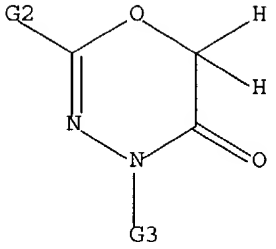
G1 = O
G2 = N
G5 = pyridyl (SO)
G10 = Ph
DER: and agronomically acceptable salts
MPL: claim 1
NTE: additional ring formation claimed

```
=> d l1; d his; log y
L1 HAS NO ANSWERS
L1                STR
```





Hy 2



Hy 4

G1 [@1], [@2]
G2 [@3], [@4]
G3 Ph, [@4]

Structure attributes must be viewed using STN Express query preparation.

(FILE 'HOME' ENTERED AT 16:19:59 ON 09 APR 2004)

FILE 'REGISTRY' ENTERED AT 16:20:07 ON 09 APR 2004

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 22 S L1 FUL

FILE 'CAPLUS' ENTERED AT 16:20:39 ON 09 APR 2004

L4 1 S L3

FILE 'BEILSTEIN' ENTERED AT 16:21:06 ON 09 APR 2004

L5 0 S L1
L6 0 S L1 FUL

FILE 'MARPAT' ENTERED AT 16:21:28 ON 09 APR 2004

L7 0 S L1
L8 4 S L1 FUL
L9 3 S L8 NOT L4

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	122.77	283.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.98	-2.67

STN INTERNATIONAL LOGOFF AT 16:22:04 ON 09 APR 2004